PART NUMBER SPEC-AIM9

AIM9 Specifications

Input Characteristics

Input Channels (local): 2 differential and balanced to ground
Gain: Adjustable per channel, 1 to 20
Input Dynamic Range: ±3.5V peak max without distortion
Input Protection: ±15V max (powered)
±10V max (unpowered)
Input Resistance: 100kΩ each input to common
Common Mode Rejection: 60dB @ 60Hz
Nonlinearity: 0.05% of full scale
Quadrature Balance Range: adjustable, ±90°
Phase Balance Range: adjustable, ±125mV @ x1 gain
Bandwidth: software selectable five pole filter (−3dB), 2, 20 or 200Hz
Settling Time (to 0.01%): 2Hz 1000ms
20Hz 100ms
200Hz 20ms
Noise: (residual carrier with 10:1 or greater oscillator to filter ratio), 1mV p-p
Temperature Coefficient:
Gain: 200ppm/°C
Offset: 100ppm/°C

Excitation Characteristics:

Frequency: selectable per system, 1k, 2k, 5k, 10k or 20kHz with master/slave synchronization for up to 10 modules
Frequency Accuracy: ±3%
Amplitude: 5Vrms ±10%
Third Harmonic Distortion: 1%
Amplitude Stability versus Load (100Ω min): .01%
Temperature Coefficient: Frequency: +200ppm/°C
Amplitude: 40ppm/°C
Power Requirements:
+15Vdc 60mA (100mA)-No load (max loads)
−15Vdc 90mA (125mA)
+5Vdc 60mA

LTR	REVISIONS	APP.	DATE
A	11604 RELEASED	MS	7/31/86

DRN. R.H.A. DATE 7/31/86
CKD. MS DATE 8/12/86
APP. DATE

KEITHLEY Keithley Instruments Inc. Cleveland, Ohio 44139

AIM 9 SPECIFICATIONS

PART NUMBER SPEC-AIM9

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FORM 28777A